

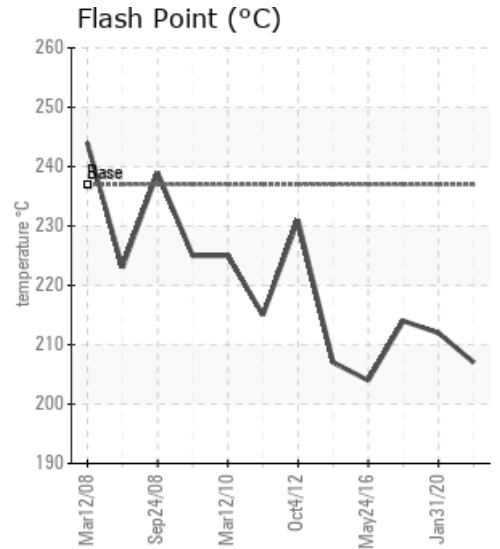
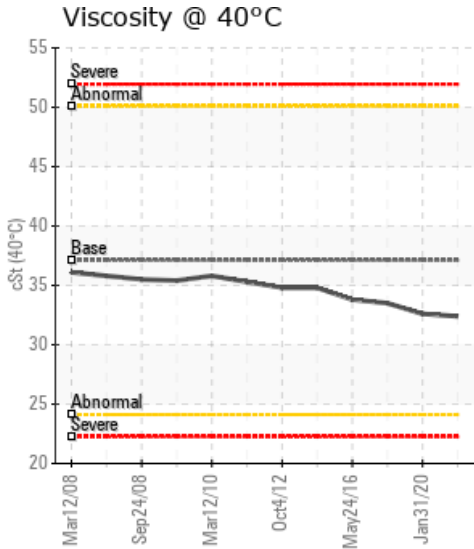
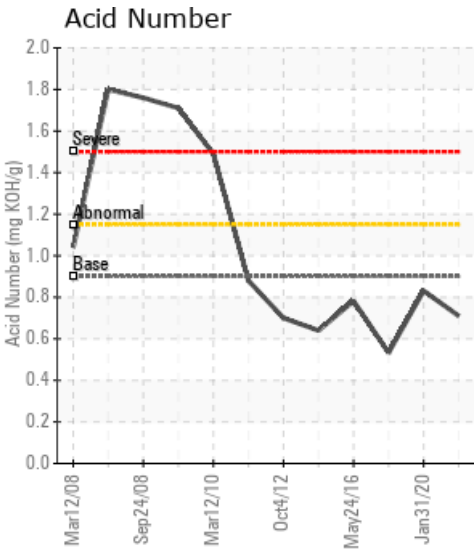
# WANSON

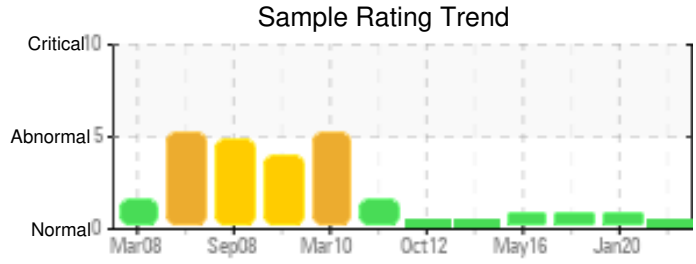
Customer: PTRHTF40021	System Information	Sample Information
MARINE HARVEST STERK BV VUURTORENWEG 13 FRIESLAND LEMMER, FRI NETHERLANDS Attn: Maintenance Manager Tel: E-Mail:	System Volume: 3000 ltr Bulk Operating Temp: 275F / 135C Heating Source: Blanket: Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID Make: WANSON	Lab No: 02405167 Analyst: Philip Riley Sample Date: 02/11/21 Received Date: 02/22/21 Completed: 02/24/21 Philip Riley philip.riley@hollyfrontier.com

Recommendation: Oil appears in good condition and fit for further use. Please re-sample at normal frequency

Comments:

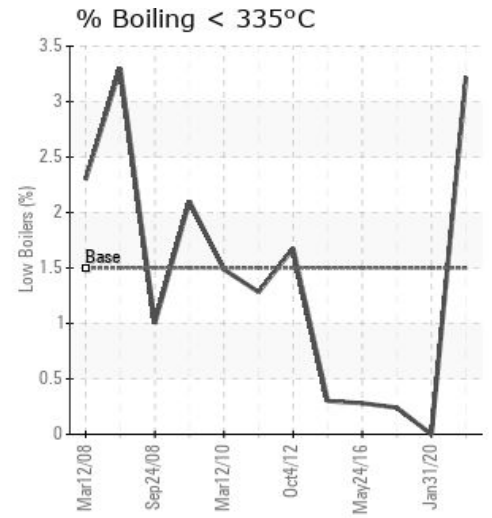
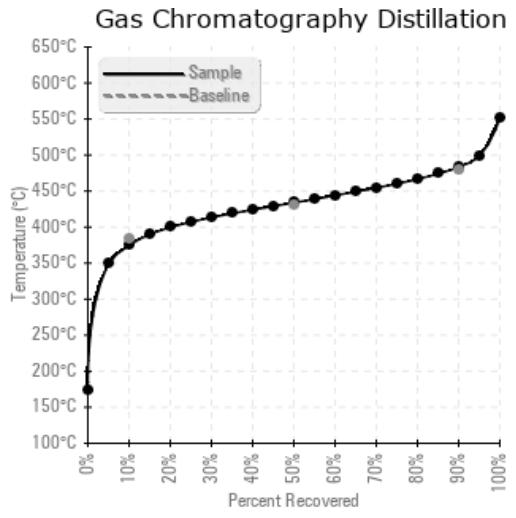
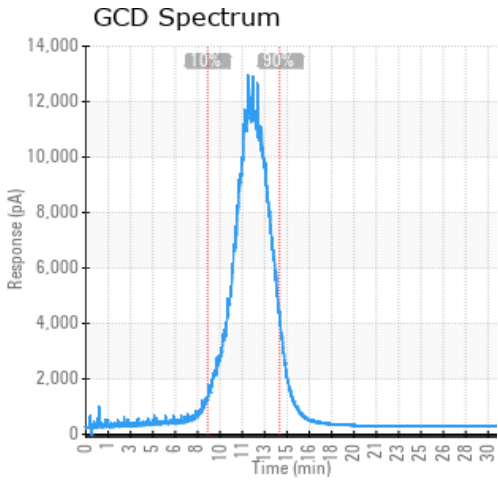
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
02/11/21	02/22/21	13.0y		405 / 207	10.3	32.4	0.71	0.226	706 / 375	813 / 434	902 / 483	3.22
01/31/20	02/11/20	12.0y		414 / 212	22.6	32.6	0.831	0.075	749 / 398	824 / 440	907 / 486	0.00
11/29/17	12/05/17	9.5y		417 / 214	10.0	33.5	0.533	0.058	716 / 380	810 / 432	914 / 490	0.24
05/24/16	05/27/16	8.0y	PTRHTF40021	399 / 204	25.9	33.8	0.782	0.085	710 / 377	803 / 428	897 / 480	0.28
01/22/15	02/06/15	6.5y		405 / 207	16.2	34.8	0.64	0.026	732 / 389	829 / 443	907 / 486	0.30
Baseline Data				459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5





Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
02/11/21	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
01/31/20	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0
11/29/17	8	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0
05/24/16	39	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	26	0
01/22/15	13	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	22	0
Baseline Data			0	0						0			0	0				0	0				230	

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



### Historical Comments

01/31/20	Fluid tests to specification. Fit for further use, please re-sample at normal frequency (GCD) % < 335°C measurement of 0.00% too low, but Flash Point indicates system to be in good conditions.
11/29/17	Looks to have been a 2 year gap in samples, plus a slight 'sweetening' or top up of fluid. Fit for further use but sample annually (GCD) 90% Distillation Point is marginally high.
05/24/16	Oil appears to be in good condition and fit for further service. Suggest sample at next scheduled maintenance interval. COC Flash Point is marginally low.
01/22/15	Oil appears to be in good condition. Sample at next scheduled maintenance interval.

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